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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/708,054	02/05/2004	Dale Cummins	60680-1812	2053 .
	590 . 01/03/2007 IAN & GRAUER PLLC	EXAMINER		
39533 WOODW	ARD AVENUE	LEE, EDMUND H		
SUITE 140 BLOOMFIELD HILLS, MI 48304-0610			ART UNIT	PAPER NUMBER
	,	1732		
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MON	THS	01/03/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Application No.	plication No. Applicant(s)				
		10/708,054	CUMMINS, DALE	CUMMINS, DALE			
		Examiner	Art Unit				
		EDMUND H. LEE	1732				
Period fo	The MAILING DATE of this communication aport Reply	pears on the cover sheet	with the correspondence add	Iress			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLECTED STATUTORY PERIOD FOR REPLECTED STATUTORY PERIOD FOR REPLECTED STATUTORY PERIOD FOR REPLECTED STATUTORY PERIOD FOR 1.5 (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statuted period by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUN. 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become	IICATION. a reply be timely filed ONTHS from the mailing date of this cor ABANDONED (35 U.S.C. § 133).				
Status							
1) 🖂	Responsive to communication(s) filed on 02 (October 2006 and 12 June	e 2006.				
		is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims	· ·	•				
4) 🔀	Claim(s) 1-14 is/are pending in the application	n.					
	4a) Of the above claim(s) is/are withdra						
	Claim(s) is/are allowed.			•			
6)🖂	Claim(s) 1-14 is/are rejected.		·	•			
7)	Claim(s) is/are objected to.	•					
8)	Claim(s) are subject to restriction and/	or election requirement.	•	•			
Applicati	on Papers						
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
,	Applicant may not request that any objection to the	·	•				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	nder 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a)[All b) Some * c) None of:						
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No.							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
			•				
Attachmen	t(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	o(s)/Mail Date				
	nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	5) Motice of Other:	Informal Patent Application				
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DETAILED ACTION

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1. It should be noted that the examiner of record has changed from A. Ortiz to Edmund Lee.

- 2. The restriction requirement mailed 9/7/06 has been withdrawn. Claims 1-14 are pending and have been examined.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Frank et al (USPN 7138202). Frank et al teach the claimed process as evidenced at col 11, lns 20-52 and col 15, ln 44-col 17, ln 28.
- 5. Claims 7,8,9,12, 13 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Wangerow (USPN 6730426). Wangerow teaches the claimed process as evidenced at the abstract, col 5, lns 44-60, and fig 1.
- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over 7. Frank et al (USPN 7138202). The above teachings of Frank et al are incorporated hereinafter. Frank et al do not teach using epoxy nitrile; injecting at the claimed pressure and temperature; and applying pressure during curing. In regard to using epoxy nitrile, such is a mere obvious matter of choice dependent on the desired final product and of little patentable consequence to the claimed process since it is not a manipulaltive feature or step of the claimed process. Further, the claimed material is well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use epoxy nitrile in place of the silicone of Frank et al in order to produce a diverse product. In regard to injecting at the claimed pressure and temperature, injection parameters such as temperature and pressure are well-known in the molding art as important molding parameters and the desired temperature and pressure would have been obviously and readily determined through routine experimentation by one having ordinary skill in the art at the time the invention was made. Further, claimed temperature and pressure are generally well-known in the molding art and it would have been obvious to one of ordinary skill in the art at the time the invention was made to use the claimed temperature and pressure in the process of Frank et al in order to efficiently form the product. In regard to applying pressure during curing, such is well-known in the molding art in order to reduce cycle time. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was

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made to apply pressure to the plates during the curing of Frank et al in order to reduce the time needed to cure the sealing material.

- Claims 10 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable 8. over Wangerow (USPN 6730426). The above teachings of Wangerow are incorporated hereinafter. Wangerow, however, does not teach using epoxy nitrile; and positioning the MEA upon one of the plates before screen printing. In regard to using epoxy nitrile, such is a mere obvious matter of choice dependent on the desired final product and of little patentable consequence to the claimed process since it is not a manipulaltive feature or step of the claimed process. Further, the claimed material is well-known in the molding art. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use epoxy nitrile in place of the silicone of Wangerow in order to produce a diverse product. In regard to positioning the MEA upon one of the plates before screen printing, it is well-known in the molding art to connect preforms by positioning a preform against another preform and then coat a shaping material onto the preforms (see class 264, subclass 263). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to position the MEA of Wangerow upon on the plates of Wangerow before the screen printing of Wangerow in order to ensure proper position of the MEA and plates.
- 9. Applicant's arguments with respect to claims 1-14 have been considered but are moot in view of the new ground(s) of rejection.
- 10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDMUND H. LEE whose telephone number is

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571.272.1204. The examiner can normally be reached on MONDAY-THURSDAY FROM 9AM-4PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Johnson can be reached on 571.272.1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

EDMUND H. LEE Primary Examiner Art Unit 1732

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